## D-754-14 WIND BEAMS AND ANCHOR PLATES FOR W-SHAPE SUPPORTS See Wind Beam Conneciton 4-%" dia. x 1½" long hex head bolts with tapered washer, lock washers, and hex nut Wind beams %" dia. x 11/4" bolts with square 2-1/2" dia. bolts head designed to fit slot, with lock washers hex nuts, lock washers, 6 required on each angle. **End View** Top View W4-13 & W5-16 Fuse plate Fuse plate with lock washers W-shape post W4-13 & W5-16 W-shape post 2-%" dia. bolts with lock washers 4-1/16" dia. x 11/2" long hex head bolts with tapered washer, lock washers, and hex nut. Breakaway base Aluminum Angle (see note) **End View** Top View 3"x3"x½"x5'-2" 1.68 lbs/ft 2-%" dia. bolts W6-20, W8-24 and W8-28 with lock washers Anchor plate Anchor plate W6-20, W8-24 & W8-28 4-1/2" dia. x 2" long hex head bolts with tapered washer, lock washers, ASSEMBLY DETAIL FOR EXIT NUMBER SIGNS 2-%" dia. bolts End View Top View with lock washers Note: Use two aluminum angles on each sign. Vary distance between angles dependent on post spacing of sign in place. Place angles as near as possible to posts. The Engineer will determine exact location. W8-31 **ASSEMBLY DETAIL** W8-31 & W10-39 S6x12.5 FOR WIND BEAMS AND ANCHOR PLATES 4-916" dia. x 2" long **ANCHOR PLATE DETAILS** hex head bolts with Notes: lock washers Calculate the B distance using the formula, B=A/4. Use wind beam conforming to Section 894.03 B.6 of the Standard Specifications. Use bolts conforming to ASTM A307 and galvanized according to ASTM A153. Sign NORTH DAKOTA DEPARTMENT OF TRANSPORTATION 10-3-13 REVISIONS CHANGE **End View** Top View 7-8-14 8-30-18 8-29-19 8-05-24 Revised second note. Updated notes to active voice. New Design Engineer PE Stamp Electronic Stamp/Signature. PROFESSIONAL W10-39 PE-4683 WIND BEAM CONNECTION DETAILS

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